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FIG. 1

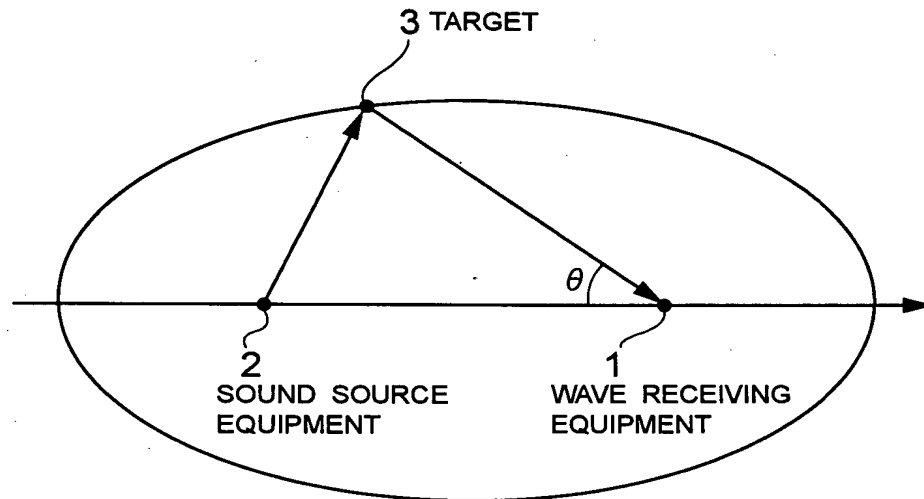
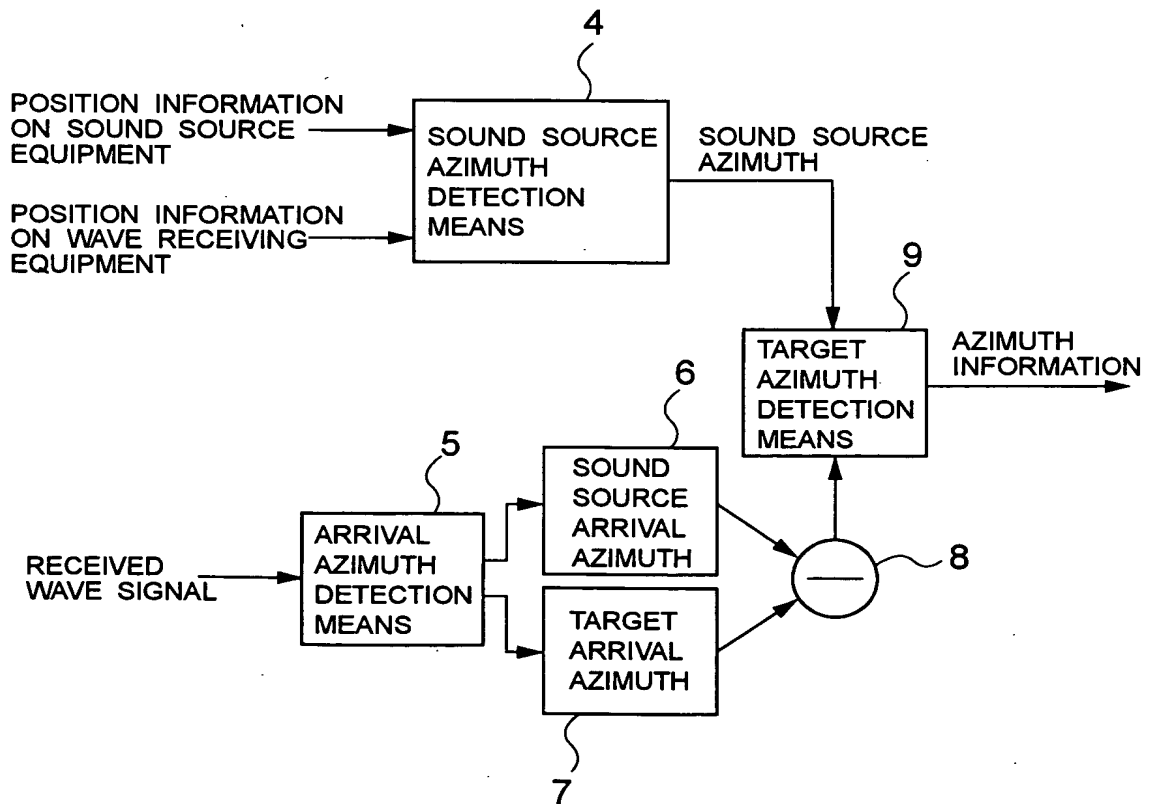


FIG. 2



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FIG. 3

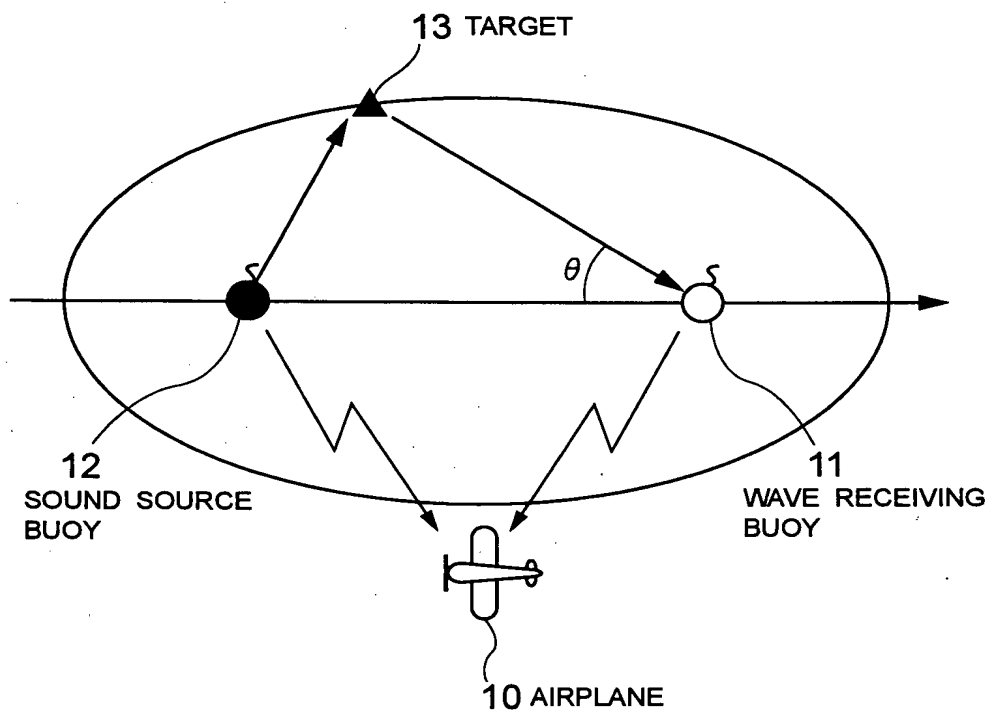
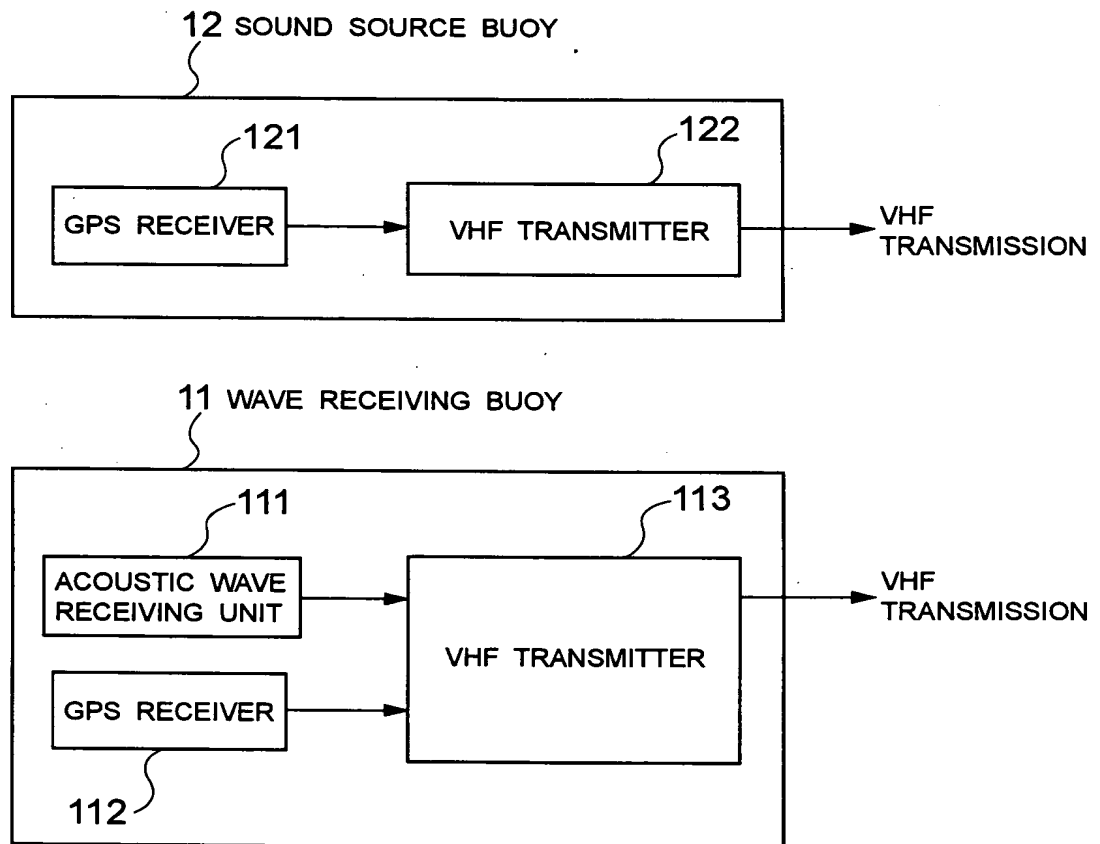


FIG. 4



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FIG. 5A SOUND SOURCE
ARRIVAL AZIMUTH

FIG. 5B TARGET ARRIVAL
AZIMUTH

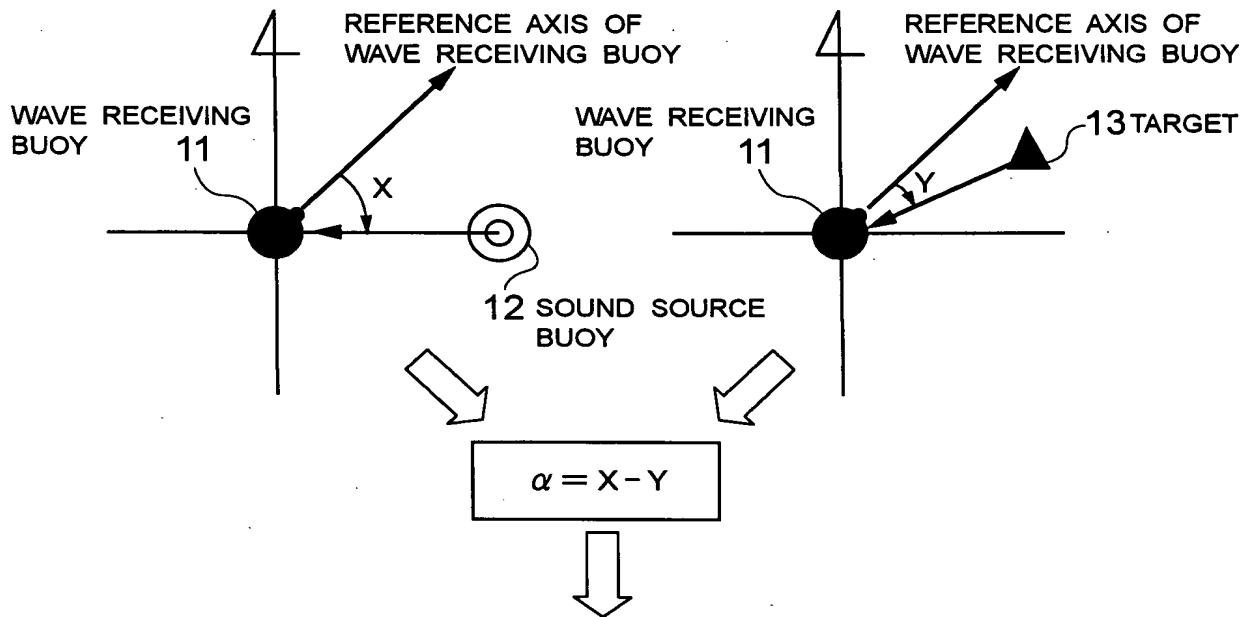
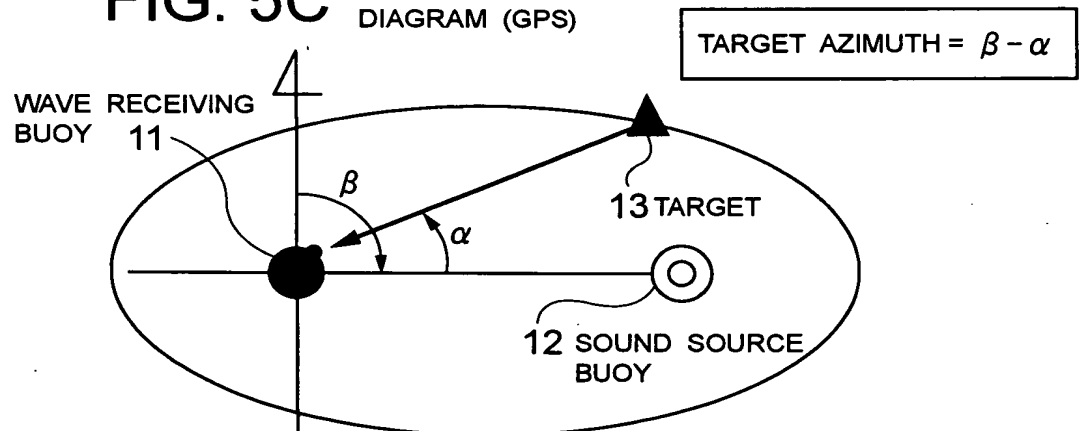


FIG. 5C TRANSITION
DIAGRAM (GPS)



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FIG. 6

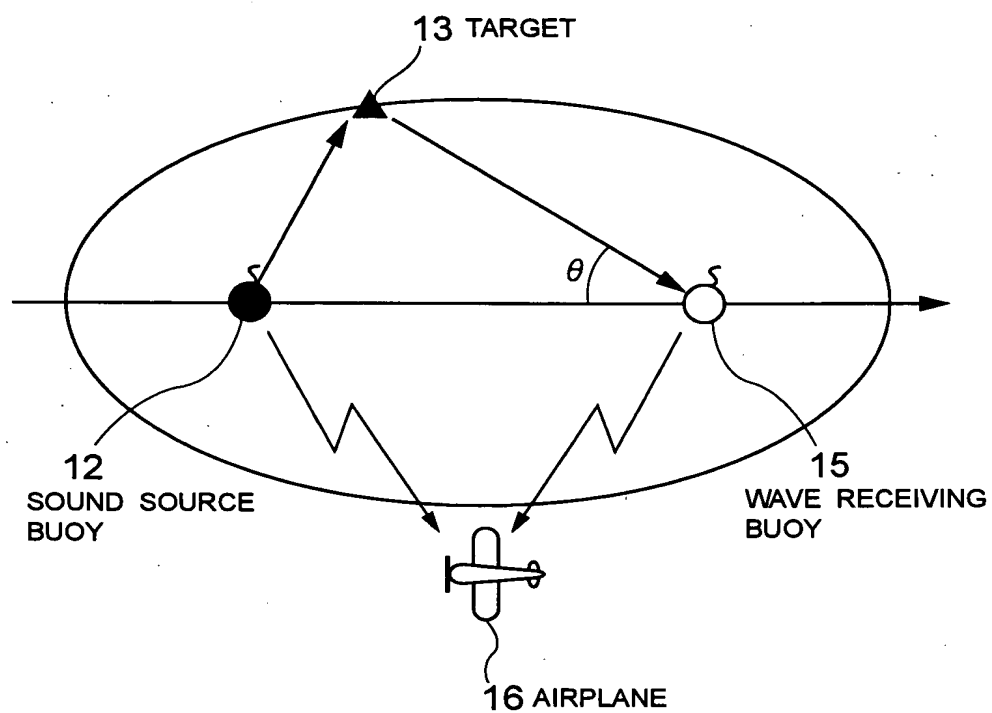
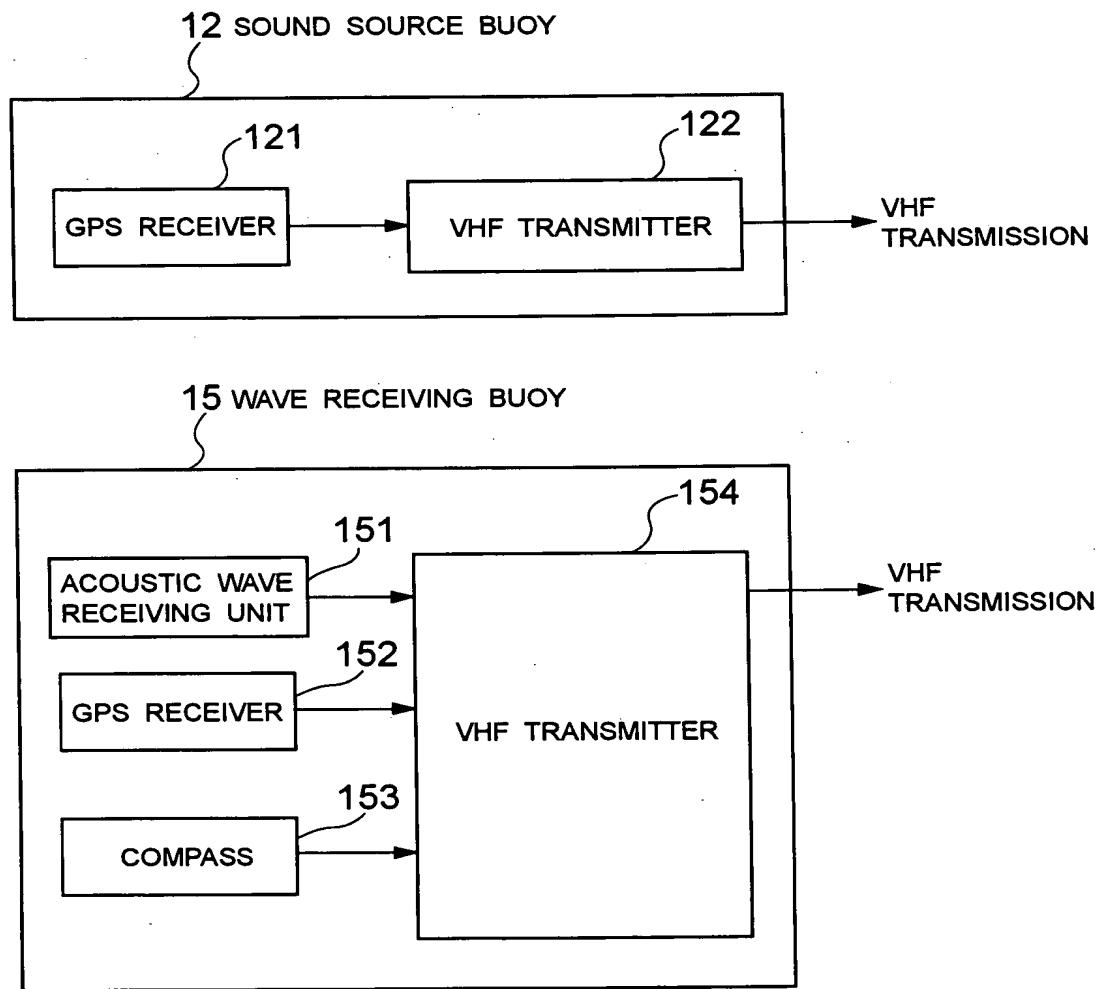


FIG. 7



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FIG. 8A

DETECTION USING
COMPASS

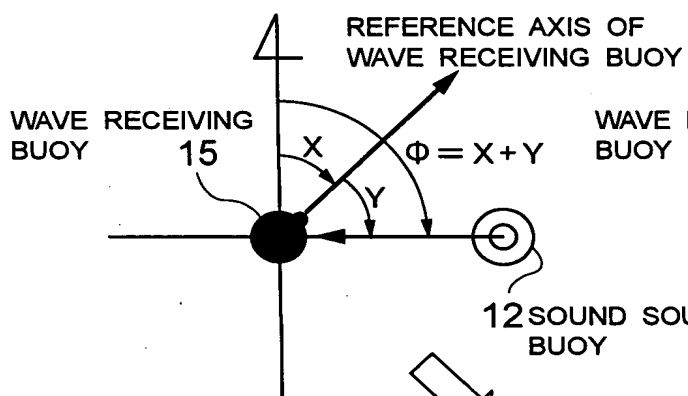
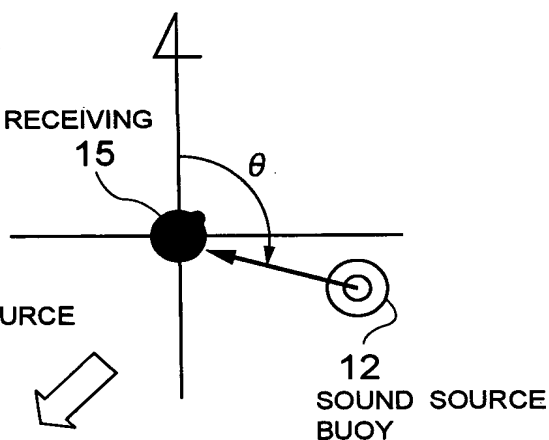


FIG. 8B

DETECTION USING
GPS



$$\alpha = \theta - \Phi$$

FIG. 8C

TRANSITION
DIAGRAM

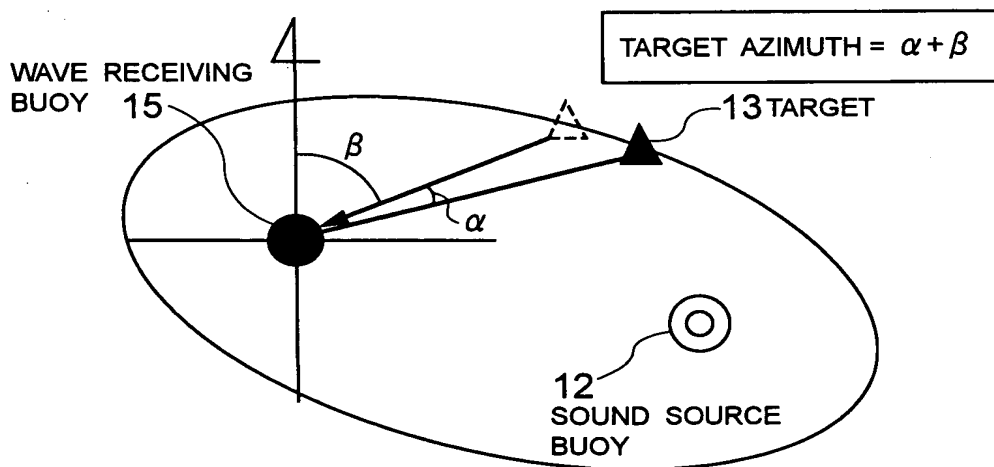


FIG. 9

